

CUSTOMER NO.: 24498
Serial No.: 09/555,188
Final Office Action dated: 04/25/06
Response dated: 08/09/08

PATENT
RCA 88,863

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A digital apparatus comprising:
 - (a) means for receiving from a peripheral device, interconnected by a digital bus, bit-mapped data representative of an on-screen display generated and controlled by said peripheral device;
 - (b) means for receiving a digital stream representative of a video program;
 - and
 - (c) means for combining, in said digital apparatus, said bit-mapped data received from said peripheral device and said digital stream to produce a signal representative of a combined displayable image, a portion of which is overwritten;
 - (d) means for receiving subsequent bit-mapped data representative of an updated portion of the previously received data;
 - (e) means for updating said combined displayable image with said received subsequent bit-mapped data to produce an updated combined displayable image, said updated combined displayable image being generated and controlled by said peripheral device;
 - (f) means for requesting from said peripheral device said bit-mapped data corresponding to said overwritten portion of said combined displayable image;
 - (g) means for receiving from said peripheral device said bit-mapped data;
 - and
 - (h) means for selecting said peripheral device from a plurality of available peripheral devices interconnected by said digital bus.
2. (Cancelled)

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3. (Cancelled)
4. (Cancelled)
5. (Currently amended) The digital apparatus of claim 41 further comprising:
means for notifying said peripheral device of a format change in said
display device in response to a format change of said received digital stream.
6. (Original) The digital apparatus of claim 5 further comprising:
means for shifting said bit-mapped data within said combined displayable
image.
7. (Previously Presented) A method for managing an on-screen display menu
of a peripheral device interconnected to a display device via a digital bus, the
display device performing the steps of:
 - (a) receiving, from said peripheral device, a message indicative of the
characteristics of a block of bit-mapped data stored in a memory device
generated by said peripheral device, said bit-mapped data being generated by an
on-screen display menu of said peripheral device;
 - (b) generating and providing asynchronous read request command to said
peripheral device;
 - (c) receiving, in response to said asynchronous read request command,
said bit-mapped data from said peripheral device;
 - (d) receiving a digital stream representative of a video program; and
 - (e) combining said bit-mapped data received from said peripheral device
and said digital stream to produce a combined displayable image, said combined
image being representative of said on-screen display generated by said
peripheral device.
8. (Original) The method of claim 7 wherein said message contains the
location and size of said block of bit-mapped data stored in said memory device.

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9. (Original) The method of claim 8 wherein said data comprises a header and a bit-mapped update block, said header defining the parameters of said on-screen display menu and said bit-mapped update block defining the location and content of said menu.

10. (Currently amended) A digital television apparatus, comprising:

(a) means for receiving from a peripheral device, interconnected by a digital bus, bit-mapped data representative of an on-screen display generated and controlled by said peripheral device;

(b) means for receiving from said peripheral device, interconnected by said digital bus, subsequent bit-mapped data representative of an updated portion of said previously transferred bit-mapped data, said subsequent bit-mapped data being indexed into said previously transferred bit-mapped data; and

(c) means for combining, in said digital television, said bit-mapped data or said subsequent bit-mapped data with a received digital stream representative of a video program to generate a combined displayable image; and

(d) means for receiving from said peripheral device data representative of a programmed event according to a first transfer mode; and wherein,

(e) said means for receiving bit-mapped data comprises means for receiving bit-mapped data according to a second transfer mode.

11. (Currently amended) ~~The~~ A digital apparatus ~~of claim 1~~ comprising:

(a) means for receiving from a peripheral device, interconnected by a digital IEEE 1394 compliant bus, bit-mapped data representative of an on-screen display generated and controlled by said peripheral device;

(b) means for receiving a digital stream representative of a video program;
and

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(c) means for combining, in said digital apparatus, said bit-mapped data received from said peripheral device and said digital stream to produce a signal representative of a combined displayable image, wherein said digital bus comprises an IEEE 1394 compliant bus and said means for receiving data representative of said on-screen display comprises means for receiving data using an asynchronous mode of transfer.

12. (Previously Presented) The method of claim 7 wherein said digital bus comprises an IEEE 1394 compliant bus and in that a first data transfer mode comprises an asynchronous mode.

13. (Cancelled)

14. (Currently amended) A digital television apparatus of claim 13, comprising:

(a) means for receiving from a peripheral device, interconnected by a digital IEEE 1394 compliant bus, bit-mapped data representative of an on-screen display generated and controlled by said peripheral device;

(b) means for receiving from said peripheral device, interconnected by said digital bus, subsequent bit-mapped data representative of an updated portion of said previously transferred bit-mapped data, said subsequent bit-mapped data being indexed into said previously transferred bit-mapped data; and

(c) means for combining, in said digital television, said bit-mapped data, or said subsequent bit-mapped data, with a received digital stream representative of a video program to generate a combined displayable image;

(d) means for receiving, from said peripheral device, data representative of a programmed event according to an asynchronous transfer mode, wherein,

(e) said means for receiving bit-mapped data comprises means for receiving bit-mapped data according to an isochronous transfer mode, wherein said digital bus comprises an IEEE 1394 compliant bus and said first transfer mode comprises an asynchronous mode, and said second mode comprises an isochronous mode.